

10/539722  
JC17 Rec'd PCT/PTO 20 JUN 2005

**Amendments to the Claims:** This listing of claims will replace all prior versions, and listings, of claims in the application

Listing of Claims:

1. (Currently Amended) An aluminum alloy for heat exchanger tubing comprising: 0.4 to 1.1% by weight manganese[,]; up to 0.01% by weight copper[,]; up to 0.05% by weight zinc[,]; up to 0.2% by weight iron[,]; up to 0.2% by weight silicon[,]; up to 0.01% by weight nickel[,]; up to 0.05% by weight titanium[,]; and the a balance of aluminum and incidental impurities, wherein said alloy ~~has been~~ is homogenized at a temperature of between 580 and 620°C and extruded into tubing and brazed.

2. (Original) Brazed extruded heat exchanger tubing formed from an aluminum alloy comprising 0.4 to 1.1% by weight manganese, up to 0.01% by weight copper, up to 0.05% by weight zinc, up to 0.2% by weight iron, up to 0.2% by weight silicon, up to 0.01% by weight nickel, up to 0.05% by weight titanium and the balance aluminum and incidental impurities.

3. (Currently Amended) A brazed heat exchanger assembly comprising: joined extruded heat exchanger tubes comprising a first aluminum alloy comprising 0.4 to 1.1% percent by weight manganese, up to 0.01% by weight copper, up to 0.05% by weight zinc, up to 0.2% by weight iron, up to 0.2% by weight silicon, up to 0.01% by weight nickel and a balance of aluminum and incidental impurities; and heat exchange fins, ~~wherein the tubes are extruded tubes formed of a first aluminum alloy comprising 0.4 to 1.1% percent by weight manganese, up to 0.01% by weight copper, up to 0.05% by weight zinc, up to 0.2% by weight iron, up to 0.2% by weight silicon, up to 0.01% by weight nickel and the balance aluminum and incidental impurities and the fins are formed of a~~ comprising a second aluminum alloy selected from the group consisting of an alloy comprising 0.9 to 1.5% by weight manganese, and an alloy of the AA3003 type, and said second aluminum alloy further containing at least 0.5% by weight zinc, whereby wherein the brazed tubes exhibit good self corrosion protection and the fins are galvanically sacrificial relative to the tubes.

4. (Currently Amended) A brazed heat exchanger assembly according to claim 3, ~~wherein the difference between the manganese weight percent content of the first aluminum alloy is related to the manganese weight percent content of the second aluminum alloy by the formula~~

$$Mn_{\text{tube}} (\text{wt}\%) > Mn_{\text{fin}} (\text{wt}\%) - 0.8 \text{ wt}\%$$

where  $Mn_{\text{tube}}$  is the manganese weight percent content of the first aluminum alloy and  $Mn_{\text{fin}}$  is the manganese weight percent content of the second aluminum alloy.

5. (Currently Amended) A brazed heat exchanger assembly according to claim 3, ~~or 4~~ wherein the second aluminum alloy ~~contains~~ further comprises less than 0.05% by weight copper.

6. (Currently Amended) A brazed heat exchanger assembly according to claim 3, ~~4 or 5~~ where a ~~the~~ galvanic current from fin to tube is greater than +0.05 microamps per square centimeter.

7. (Currently Amended) A brazed heat exchanger assembly according to ~~any one of claims 3, to 6~~ wherein the manganese weight percent of the first aluminum alloy ~~contains~~ is between 0.6 and 1.19% ~~by weight manganese~~.

8. (Currently Amended) A brazed heat exchanger assembly according to claim 7 where the manganese weight percent of the first aluminum alloy ~~is contains~~ between 0.9 and 1.1% ~~by weight manganese~~.